

## The Knowledge Bank at The Ohio State University

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# DEPARTMENTS AND SOCIETIES

## ENGINEERS COUNCIL

On November 24th at 4 P. M. the Engineers Council presented Professor R. L. Daugherty, professor of mechanical engineering at California Institute of Technology, who gave a lecture on the new Colorado River Aqueduct. This aqueduct carries water from the Colorado river to Pasadena, California, a distance of 300 miles.

The cost of this project including the five pumping stations amounted to \$12,000,000. The cost of the current to operate the pumps is about \$4,000,000 per year. Because a difference of efficiency of 1 per cent would make a change in the cost of about \$4,000 a year, Professor Daugherty was hired to find the most efficient pumps that could be obtained. A group of slides was used in connection with the lecture.

The Council has planned to give a series of motion pictures that would be of interest and also beneficial to engineering students. The first of these series was given Tuesday, December 1, at 4 P. M. in Room 100 of the Chemistry Building.

Both pictures were presented through the courtesy of the American Brass Co. The topics were "From Mine to Consumer," and "House of Dreams."

## A. S. M. E.

Instead of the regular Friday meeting, the student branch of the American Society of Mechanical Engineers made an inspection trip through the Battelle Memorial Institute, Saturday, November 7.

Preceding the trip, a director of the institute outlined the history of its founding and the work in progress at the present time. After dividing into small groups, the mechanical engineers spent several interesting hours inspecting the entire building.

At the regular 4 o'clock meeting on Friday, November 13 in Robinson Laboratory, Professor W. R. Dumble of the English department gave an entertaining lecture on the contemporary short story, comparing it with the cinema and stage.

On Thursday evening, November 19, the student branch of A. S. M. E. entertained the Columbus section of A. S. M. E. at a meeting in Robinson Laboratory. The seniors proceeded with tests in the laboratory just as in class while the juniors acted as guides for the visiting engineers. Professor Stinson gave a short lecture, illustrated with slides, concerning the tests being made on the coefficient of friction between various makes of automobile tires on wet and dry pavements. After the meeting, doughnuts and cider were served.

## A. I. E. E.

The A. I. E. E. student branch convention of District II was held at Ohio State University on Nov. 13 and 14

and was opened with a banquet at Pomerene Hall on Friday evening. Professor F. C. Caldwell gave the welcoming address to the delegates at this time. That same evening, at the meeting in the Grand Lounge in Pomerene Hall, Professors Bibber and Everitt discussed and explained the electrical engineering department of Ohio State. Mr. Henline, the national secretary of A. I. E. E., reported on the student branch organizations and their various activities. Professor Kimberly spoke on the activities of the Columbus section.

Saturday morning at 9 a. m., an inspection tour of the electrical engineering department was made with Professors Byrne, Caldwell, Bibber, and Kimberly acting as guides.

At 10:30 that same morning, separate meetings were held by the faculty counsellors and the student branch chairman, Ray Stokely of Ohio State presided over the student chairmen with Mr. Shumaker of Bucknell acting as secretary. The meeting consisted of a discussion of the problems confronting the A. I. E. E. student branches, such as: holding meetings in the afternoon instead of evenings; obtaining greater student participation at the meetings; and the Cincinnati U. plan of assessing all engineering students a sum of \$2.00 (on fee card) and turning this money over to the students' respective branch organizations instead of monthly or annual dues.

The convention closed with a joint meeting of faculty counsellors and student chairmen. Mr. Beaver, of Lehigh, very amusingly reported for the faculty counsellors and Mr. Shumaker reported for the student chairmen.

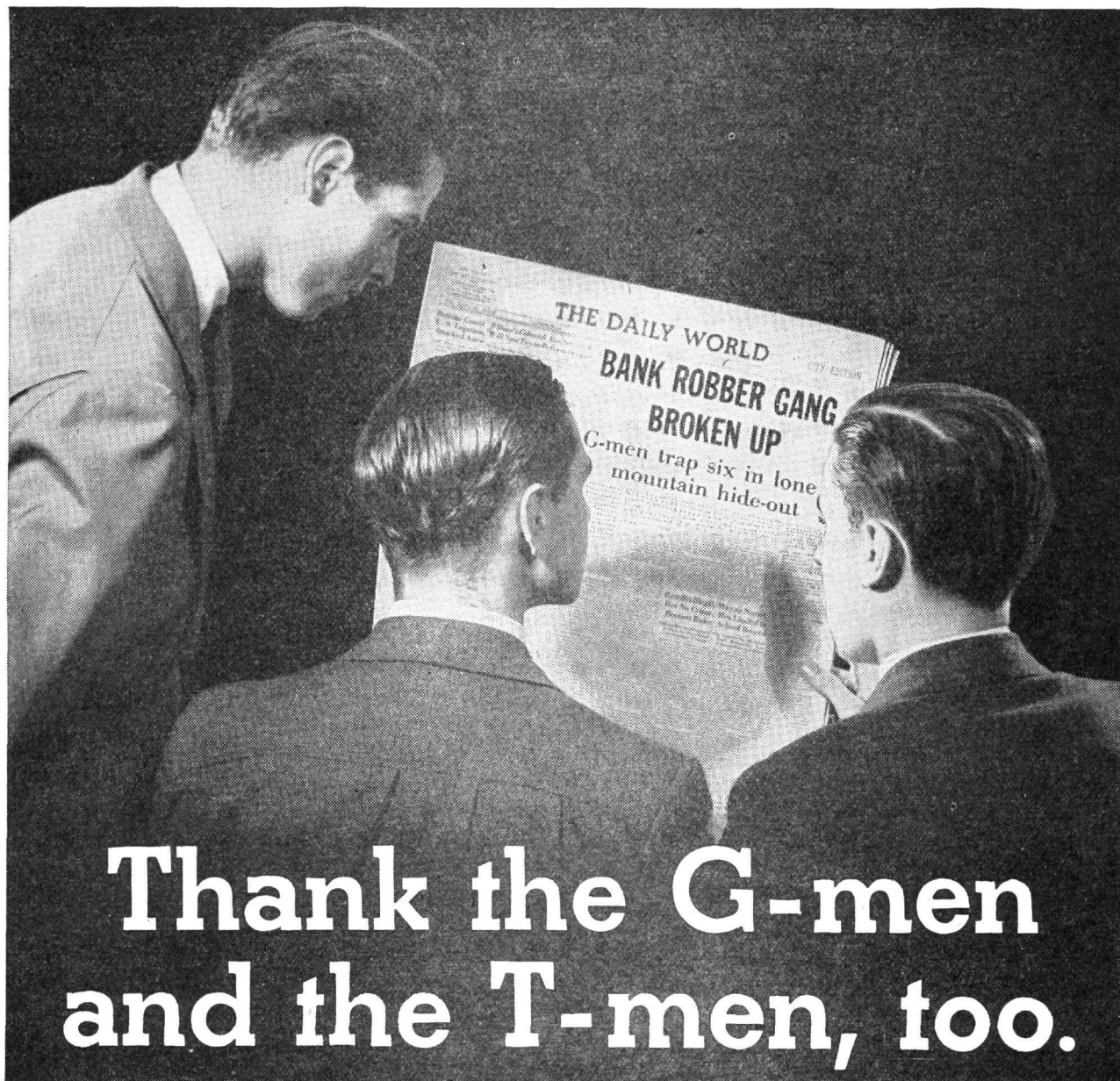
The District No. II convention will be held at the University of Akron next year.

## GLIDER CLUB

The Ohio State University Glider Club has been very active this quarter, holding a dinner meeting every Thursday evening in Pomerene Refectory. Nor has its activities been limited to "chair-flying." Gliding has been done throughout each week, with several groups participating on week ends. The high wind, however, has played havoc with several flight sessions, making it unsafe to leave the ground. On such occasions ground training was given the fledglings, or work was done on the assembly of the recently purchased Cessna glider.

The Cessna is a primary glider, as is the Waco, the glider being used as present. The Cessna is of wood construction and is therefore much lighter than the Waco, which has a tubular steel frame. Due to its light weight, the Cessna will be capable of being launched by shock-cord, instead of the tow cable in use now. Because of its delicate construction, the Cessna will not be used for training.

*(Please turn to page 22)*



# Thank the G-men and the T-men, too.

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## DEPARTMENTS AND SOCIETIES

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### SIGMA GAMMA EPSILON

On the third of November, Sigma Gamma Epsilon held its first dinner party of the year, in the Dutch Tavern. With a large percentage of the actives and pledges present, Mr. E. V. O'Rourke, of the petroleum engineering department, entertained the group by giving the inside story of the Oklahoma City oil pool, where, last summer, he was actively employed as consulting engineer by one of the major oil producers in that section.

With the fall season of activities fast drawing to a close, S. G. E. devoted their November 17 meeting to the planning of next quarter's program.

The feature of the selected schedule was the planning of a full day field trip to Flint Ridge, to be held under the supervision of a geology instructor. The outing is to be held some time during the next quarter, the pledges being the guests of the fraternity for the day.

### A. I. Ch. E.

Chemical engineering alumni, returning to Ohio State for the annual chemical engineering homecoming the morning of November 21, heard seven short addresses on chemical engineering developments.

The speakers and their topics were: Dr. James R. Withrow, "Chemical Engineering Congress of World Power Conference, London, England"; L. J. Trostel, chief chemist, General Refractories Co., Baltimore, Md., "Relation of Refractories to the Chemical Engineering Industries"; Dr. Howard E. Fritz, sales manager, The B. F. Goodrich Co., Akron, O., "Koroseal—A New Synthetic Elastic Material"; A. B. Beaver, head, Research Division, the National Cash Register Co., Dayton, O., "The Application of Hydrogen Copper Brazing to Small Intricate Parts"; Charles P. Hoover of Columbus Water Softening and Purification Works, and Norbert A. Koebel, Eastman Kodak Co., Rochester, N. Y., "The Corrosive Action of Water on Galvanized Hot Water Tanks"; A. H. Flower, technical director, Inland Manufacturing Co., Dayton, Ohio, "Duties of a Technical Director for an Automotive Accessory Plant"; and Dr. A. H. Galt, vice-president, Pittsburgh Plate Glass Co., who presented the paper of Dr. Irving E. Muskat, research director, Columbia Chemical Division, "The Industrialist's Viewpoint on the Chemical Engineering Industries."

The talks were preceded by an inspection of the chemical engineering laboratories and were followed by a get-together meeting.

### A. C. S.

It will be a long time before the student branch of the American Ceramic Society hears a more interesting and informative talk than that given by Doctor Bole at the meeting of November 18. Speaking of "European

Ceramics," Doctor Bole told of his recent trip viewing the ceramic industry of the European countries.

That the Europeans trend toward art rather than engineering although they are becoming a little more sensitive towards the latter, was explained by the speaker as he told of watching a worker spend eighteen minutes decorating a steak plate. Their attitude is to turn out the best possible product regardless of time and other factors so important in the American system of production.

The schools are well equipped to furnish a sound training in the work which the students are to follow in the ceramic plants. Slides showed the London Brick Plant and various other factories and potteries engaged in the industry throughout the continent. These, with the descriptions of the speaker brought out the effect of politics and the depression upon the industry.

After the business of the meeting came the pleasure in the form of refreshments.

### A. S. C. E.

The activities of the student chapter of A. S. C. E. of the past month included a dinner meeting at Pomerene Refectory, held Nov. 11, 1936, at 6:00 P. M. The attendance was good, but as usual there were several members absent.

The speaker of the evening was Mr. F. H. Waring, chief engineer of the state department of health. Mr. Waring spoke on the "Development of Modern Sanitary Engineering in Ohio." His remarks included a brief history of sanitary engineering in Ohio, and progressed with a discussion of the requirements of a sanitary engineer, and the problems confronted in that profession. That Mr. Waring's remarks were interesting was well attested by the fact that all students present quit toying with their silverware and gave him their undivided attention.

The rich experience of Mr. Waring enabled him to cite many examples of engineering problems, making his talk doubly valuable to his audience.

### S. S. I. E.

The Student Society of Industrial Engineers is enjoying one of its best years since its origination. With their record membership, they boast many activities. Their chess tournament, singing quartet, and dinner meetings are indicative of the spirit they emanate. A sizeable group is always in attendance at their hilarious dinner meetings. The climax takes place with the singing of "Sylvia" by Professor Morrison, accompanied as usual by none other than Professor Lehoczky.

The members of the industrial engineering department are dismayed to learn that Professor Paul N. Lehoczky has sustained a serious injury during the recent holidays. Professor Lehoczky is convalescing from a broken leg, and his return to the university is indefinite. His absence is regretted among the seniors, who have sent him a slight token to express their feelings. Meanwhile Professor John Younger and the students will endeavor to carry on, but a speedy recovery is hoped by everyone.

## S. A. E.

The guest speaker at the October 23 meeting of the student branch of the Society of Automotive Engineers was Mr. Fowler of the Ethyl Gasoline Corporation. His subject, "Modern Engines and Fuels," was introduced by a series of slides. After a short lecture on the operation of the gasoline engine, two demonstrations were given.

The first was the use of third grade, second grade and ethyl gasoline in an engine under fixed conditions and the comparing of the engine knocking with each grade of fuel.

The second demonstration was the Ethyl Corporation's conception of the theory concerning the cause of knocking. This proved especially interesting to the engineers.

## A. I. M. M. E.

The student branch of A. I. M. M. E. meets in Lord Hall on the first and third Wednesday of every month.

At the beginning of this year, students who had been out working during the summer reported on their work.

Robert Fox told about laboratory practice and parts in the process of making stainless steel. Coke oven operation was discussed by Jim Sutherland, and Pennsylvania coal mining by R. C. Hall. Dick Sayrs told about gypsum mining in West Virginia. Due to the fact that Robert Schurtz talked before many men in this group at a different meeting, we didn't get to hear him. Schurtz spent six months in Siscoe, Quebec, mining gold.

Dr. George Smith, director of United States Geological Surveys for 25 years, gave a very interesting talk before the students and faculty, discussing "Why I Prefer Engineers." All of those who heard Dr. Smith were more than gratified for his timely advice about an engineer's dealings with truths and facts.

At our last meeting Dr. Lamey, of the Ohio State Geology department, gave a lecture on "Mining, Milling, and Smelting of Michigan Copper Ores." Thanks to Dr. Lamey we have a very clear idea of the flow sheet of the Michigan mines.

As a result of the recent drive for student associates for the A. I. M. M. E., we have sent in twelve memberships to New York. At our regular meetings about 30 members attend.

William Roy, Sr., of Hanna Coal Co., who in three years reduced the accident rates 75 per cent in their mines, gave, at our safety conference, an interesting lecture on "Safety Measures in Industry."

## ARCHITECTURE

Two requests have been made by the department of architecture to the University administration. The first is that the department of architecture and the department of landscape architecture be consolidated into one department of architecture and landscape architecture. Landscape architecture, although housed with architecture for the last three years, is included in the College of Educa-

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tion. The consolidation will bring landscape architecture into the College of Engineering, and the course will be slightly changed to become more of an engineering course. Both departments desire the consolidation.

The second request is that the course in architectural engineering be abandoned. This course is preparatory for a degree of Bachelor of Architectural Engineering. This degree at present is not recognized by either the State Architects Board or the Engineers' Registration Board. The course will be changed very little but the degree awarded will be changed to Bachelor of Architecture. The course of architecture will then be the same as at present for the first three years, dividing itself during the last two years into a design option and a construction option, the construction option corresponding to the present course of architectural engineering. Students now enrolled in architectural engineering may have their choice between the old and the new courses.

## ANNOUNCEMENT

Word has just been received that the topic for Colonel Toulmin's gold medal award for 1937 will cover some phase of "The Effect of Invention on Employment." Competition for this splendid award is limited to students and graduate students in the College of Engineering. Papers should be submitted to the Toulmin Award Committee by May 1, 1937.